

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

**(19) World Intellectual Property Organization**  
**International Bureau**



**(43) International Publication Date  
11 August 2005 (11.08.2005)**

PCT

(10) International Publication Number  
**WO 2005/073630 A1**

(51) International Patent Classification<sup>7</sup>: F23D 14/06, F24C 3/08

(21) International Application Number: PCT/SE2005/000121

(22) International Filing Date: 1 February 2005 (01.02.2005)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
900464 2 February 2004 (02.02.2004) AU

(71) Applicant (*for all designated States except US*): AK-TIEBOLÄGET ELECTROLUX [SE/SE]; S-105 45 Stockholm (SE).

(72) Inventors; and

(75) Inventors/Applicants (*for US only*): ROSSI, Carlo,

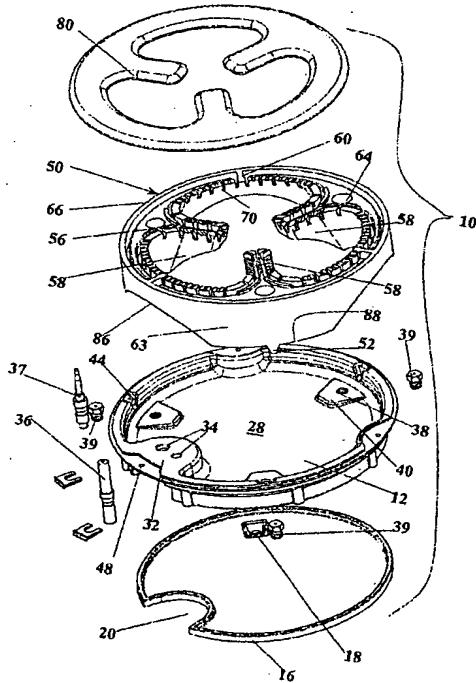
**Antonio** [AU/AU]; 305 Portrush Road, Norwood, S.A. 5067 (AU). **ROSS, Marco** [AU/AU]; 34 Herbert Road, West Croyton, S.A. 5008 (AU). **MCINTYRE, Steven** [AU/AU]; 6 Leslie Avenue, Westbourne Park, S.A. 5041 (AU). **BORG, Keith, Joseph** [AU/AU]; 47 Hydrael Street, Revensby, NSW 2212 (AU). **BROCK-NANNESTAD, George** [DK/DK]; Resedavej 40, DK-2820 Gentofte (DK).

Agent: SVAHN, Göran; AB Electrolux, Group Intellectual Property, S-105 45 Stockholm (SE).

(81) **Designated States** (*unless otherwise indicated, for every kind of national protection available*): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.

[Continued on next page]

(54) Title: GAS BURNER



**(57) Abstract:** The present invention provides a gas burner (10) including: a distributor means (50) having at least one distribution chamber to distribute an air/gas mixture around said distributor (50), said burner (10) including a plurality of flame ports (70) through which said gas mixture can pass and be ignited; at least one injector (39) associated with said distributor (50), said at least one injector (39) being positioned to inject gas into said at least one distribution chamber via a venturi formed of a vertically directed passage and transition port (64) and at least one venturi extension extending away from said transition port (64). The present invention also provides manifold for a gas burner (10), said manifold having an upper wall (12) and a lower wall (16) held in spaced apart relationship by a peripheral wall to define a cavity there between, said manifold including means (38) to mount at least one injector (39) so as to deliver an air/gas supply to a distribution means (50) and an inlet port (18) to allow connection to a supply of gas, which can pressurise said cavity, said upper (12) and said lower (16) wall being formed from relatively thin sections.



(84) **Designated States** (*unless otherwise indicated, for every kind of regional protection available*): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*

**Published:**

— *with international search report*